	טען	O TATOM	voranu		OMILE) SIVIES	GOVERN	MENT
то	:	Chief, Cont	tracts Sta	ff, DPD-DD/	P	DATE	: 22 March	1962
FROM	:	Chief, Admi	inistrativ	e Staff, NP	IC			
subjec	T:	Contract fo	or Special	Resolution	Test Film	ns		
REF	:	Itek Corp.	(ITL) pro	posal 3343.	Ol dated 6	6 October 19	961	
25X ⁻ X1A (1A	IA	sets of Spin accords 6 October Chief, TPS 2. 1 the amount 2155-1010 that amounts. number and transferri	pecial 70 pance with 1961. The RDS, NPIC. Based on to 10 pane. The second to 10 pane. The	MM, 5-Inch, Itek Corpor e four sets he unit pri has been Obligation be not ther reques on reference itures inci	and 9.5-1 ation (ITI are for on ces special established Reference ified of the ted that the e number of dental to	Inch Resolut L) proposal delivery to fied in the an object against I e No. 11. I the actual r the aforement	proposal cligation in NPIC account It is reques negotiated ntioned acco all documen st to NPIC.	25X1A ted
r		25X1A	Ą					
		cc:						
				!	- -			_
					1		30	

DOCUMENT NO. CLASS. DE 25X1A

NO CHANGE IN CLASS. TO: TS S C

NO CHANGE IN TO: TS S C

CLASS. CHANGE LATE:

CLASS. CHANGE LATE:

NEXT REVIEW DATE:

DATE:

DATE:

MATE: ____

Approved For Release 2002/08/12: CIA-RDP66B00728R000100100028-8

Enel # 6 DPD 0361-62 COPY 1013

ITEK LABORATORIES

PROPOSAL FOR THE

PREPARATION OF SPECIAL 70 MM, 5-INCH, AND 9.5-INCH

RESOLUTION TEST FILMS

(PROPOSAL 3343.01)

October 6, 1961

DECUMENT NO. NO CHANGE IN GLASS. DEGLASSIFIED CLASS. GRANGED TO: TS G Q	
- mental the first the first term of the first t	
MANT BUYER BUYER BUYER - OFVA	Δ
AUTH: RR 18-2 DATE: 13 WAS REVIEWERL	`

PROPOSAL FOR THE PREPARATION OF SPECIAL 70 MM, 5-INCH, AND 9.5-INCH RESOLUTION TEST FILMS--PROPOSAL 3343.01

Introduction

Itek Laboratories is pleased to submit the following quotation for the preparation of special resolving power test films. Such special materials have been produced for a number of applications, and special printers are available.

The Applied Photography Section of the Photography Department has, for some time, been engaged in the production of a wide variety of special target and reticle patterns, particularly on high-resolution film such as Eastman Kodak 6496H, or 50-105 film. All film targets are made from Bushnell master target.

11. Description of Proposed Test Films

A. The Test Target

The test target consists of a number of test objects. A test object is composed of two three-line squares, oriented at right angles. The line-to-width ratio is 5:1, with lines separated by a space equal to the line width. A complete target consists of a series of these test objects, the size decreasing according to the sixth-root-of-two. Thus, the resolution doubles for each six objects, and the target is numbered in groups of six objects each, with the largest group numbered -2, the next largest numbered -1, and so on through 0, 1, and up to 7. Any given object within a group is identified by the group number, followed by a dash and the object number within that group. In Table, 1, the resolution for the first object of each group is given, plus 7-6 (last object on the master target).

	TABLE	
Group	<u>Ob ject</u>	Resolving Power (1/mm)
-2		1/4
-1		1/2
0		1
1		2
2	1	4
3	1	8
4	l l	16
5	l l	36
6	1	64
7	\mathbf{I}	123
7	. 6	223

B. Target Contrast

In accordance with both the MILSSTD-150A and the tentative ASA Standard on Resolving Power of Photographic Materials, the high-contrast targets will have a density difference between line (light) and background (dark) of 2.0 or greater. The logist target will have a density difference of 22 ± .02.

C. Target Array

STATINTL

A target array is defined here as a number of targets, arranged over a specific area in a specific pattern. The array will be similar to the 13-target array described in MIL STD-150A, with one possible exception. The MIL STD array has those targets away from the center with their lines arranged radially and tangentially to the center. This configuration is specifically intended for lens testing. If, however, the test films are to be used for testing photographic contact printers, we strongly advise that the targets be arranged with lines parallel and perpendicular to the film direction. The analysis of results is considerably simplified with this arrangement. It will be necessary for the customer to specify the end use, or to specify which arrangement in the target he requires.

D. The Composite Test Films

Each composite test film will contain alternate high—and low—contrast target arrays, with six feet of leader and trailer film. There will be five high-contrast and five low-contrast arrays on each film. All splices will be butt splices, with half-inch mylar tape (.001 inch thick).

1. 70 mm Test Film

Each array will cover 2-1/4 by 2-1/4 inches. Arrays will be spliced six inches on center. Each array will contain 13 targets, each with resolution ranging from 8 to 228 l/mm (group 3, object 1; to group 7, element 6). Total length of test film, including leader and trailer, will be about 17 feet.

2. 5-Inch Test Film

Similar to 1;, except each array will cover a 4.5-by-4.5-inch format.

3. 9-1/2 Inch Test Film

Each array will cover a 9-by-9-inch format. Each array will be spliced 12 inches on center, with a total of three high-contrast and two low-contrast arrays. Total test film length will be 17 feet.

III. Auxiliary Data

STATINTL

A report will accompany each roll, containing the resolution range for each target. An upper limit of ______ will be maintained, clearly and sharply resolved. Because of the limitations of the original glass target, a line-to-space ratio of unity is not possible for the finest lines. However, every attempt will be made to hold this as close as possible to the original target quality. A photomicrograph of the original glass target master will be sent to the customer upon request.

The report will also state the density difference between line and background (contrast) as actually measured on each roll.

Although there may be occasional defects in the background, films will be rejected which contain defects that obstruct the resolution target detail.

IV. Delivery

- A. 70 mm
 - 1. 10 each within 60 days of receipt of order
 - 2. 48 each within 120 days of receipt of order
- B. 5-inch
 - 1. 10 each within 60 days of receipt of order
 - 2. 48 each within 120 days of receipt of order
- C. 9-1/2 Inch
 - 1. 10 each within 60 days of receipt of order
 - 2. 48 each within 120 days of receipt of order

QUICK REACTION QUOTES

JOB TITLE AND QUANTITY

Preparation of Special 70mm, 5-inch and 9-inch Resolution Test Films

B. 5-inch Test Film

PRO JECT NO. 3343.01

October 6, 1961

DATE

TOTAL SELLING PRICE

Note: This job is only one portion of the entire proposal.

STATINTL

QUICK REACTION QUOTES

JOB TITLE & QUANTITY	CUSTOMER Classified
Preparation of Special 70mm, 5-inch,	PROJECT NO. 3343.01
and 92-inch Resolution Test Films	DATE October 6, 1961
A. 70mm Test Film	
The second of the second of the second	
。	: 10 Each : ЦВ Each
	2 (2 - 10 Each 27 μο Each 2
TOTAL SELLING PRICE	
UNIT SELLING PRICE	
경기에 가장하는 이번 이제로 밝혔다.	

STATINTL

Approved For Release 2002/08/12 : CIA-RDP66B00728R000100100028-8

This job is only a portion of the entire proposal

QUICK REACTION QUOTES

PROJECT NO. 3343.01
DATE October 6, 1961
.•
10 Each /18 Fach
の こうかん Mind では Mind Mind Mind Mind Mind Mind Mind Mind

Approved For Release 2002/08/12 : CIA-RDP66B00728R000100100028-8

STATINTL